



Proposed Code Change

State Form 41186R

RETURN TO:
INDIANA DEPARTMENT OF HOMELAND SECURITY
CODE SERVICES SECTION
302 W. Washington Street Room W246
Indianapolis, IN 46204

FOR OFFICE USE ONLY

Received 3/15/10

Code 50.10.3.2-09

INSTRUCTIONS:

Only TYPED copy accepted.

(KEY – ~~Dashed line through material to be deleted~~, underline material to be added)

Use second sheet for any material requiring more space.

Code Title		Edition
International Residential Code		2009
Section number and title		Page
Table R602.10.4.2 Length Requirements for Braced Wall Panels with Continuous Sheathing		176
Proponent	Title	
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9025 N River Rd., Indianapolis IN 46240		317-846-3234

PROPOSED CODE CHANGE (Check One)

☒ Change to read as follows ☐ Add to read as follows ☐ Delete and substitute as follows ☐ Delete without substitution

**TABLE R602.10.4.2
LENGTH REQUIREMENTS FOR BRACED WALL PANELS
WITH CONTINUOUS SHEATHING^a**

METHOD	ADJACENT CLEAR OPENING HEIGHT	WALL HEIGHT				
		8'	9'	10'	11'	12'
CS-WSP CS-SFB	≤ 64"	24"	27"	30"	33"	36"
	68"	26"	27"	30"	33"	36"
	72"	27" <u>28"</u>	27"	30"	33"	36"
	76"	30" <u>29"</u>	29" <u>30"</u>	30"	33"	36"
	80"	32" <u>31"</u>	30" <u>33"</u>	30"	33"	36"
	84"	35"	32" <u>36"</u>	32" <u>33"</u>	33"	36"
	88"	38" <u>39"</u>	35" <u>39"</u>	33" <u>36"</u>	33"	36"
	92"	43" <u>44"</u>	37" <u>42"</u>	35" <u>39"</u>	<u>35"</u>	<u>36"</u>
	96"	48"	41" <u>45"</u>	38" <u>42"</u>	<u>36"</u>	<u>36"</u>
	100"		44" <u>48"</u>	40" <u>45"</u>	<u>38"</u>	<u>38"</u>
	104"		49" <u>51"</u>	43" <u>48"</u>	<u>40"</u>	<u>39"</u>
	108"		54"	46" <u>51"</u>	<u>43"</u>	<u>41"</u>
	112"			50" <u>54"</u>	45" <u>44"</u>	<u>43"</u>
	116"			55" <u>57"</u>	<u>48"</u>	<u>45"</u>
	120"			60"	<u>52"</u>	<u>48"</u>
	122"					<u>48"</u>
	124"				<u>56"</u>	<u>51"</u>
	128"				<u>61"</u>	<u>54"</u>
	132"				<u>66"</u>	<u>58"</u>
	136"					<u>62"</u>
	140"					<u>66"</u>
	144"					72"
CS-G	<u>See Note b ≤ 120"</u>	24"	27"	30"	<u>33"</u>	<u>36"</u>
CS-PF	≤ 120"	16"	18"	20"	<u>22"</u> ^{nc}	<u>24"</u> ^c

For SI: 1 inch = 25.4 mm, 1 foot = 305 mm

- Interpolation shall be permitted.
- Garage openings adjacent to a Method CS-G panel shall be provided with a header in accordance with Table R502.5(1). A full height clear opening shall not be permitted adjacent to a Method CS-G panel.
- Maximum opening height shall be in accordance with Figure R602.10.4.1.1.

REASON AND FISCAL IMPACT
<p>The expansion and interpolation of Table R602.10.4.2 provided last cycle as part of RB144-07/08 turns out to be overly conservative when checked against the actual required panel lengths generated using the perforated shear wall engineering method, which forms the basis of the continuous sheathed method in the IRC. The revised length for 8 foot, 9 foot, and 10 foot walls reflect an accurate calculation taking into account each opening height and wall height listed, rather than interpolating between the original 67%, 85% and 100% opening heights. The calculation is extended further for 11 foot and 12 foot walls in accordance with RB156-07/08, filling in the spots that were left blank by ICC staff in correlating the 2009 IRC. Finally, the CS-G and CS-PF methods (the old 4:1 and 6:1 panels) are extrapolated to 11 foot and 12 foot walls. In doing so, the allowable opening height is capped at 10'-0", as the presence of a header is critical to insuring the CS-G and CS-PF methods perform as desired at the taller wall heights.</p>
REVIEW RECOMMENDATION
Approve
Disapprove
Approve as amended
Further Study